Project Name	InfotAiMOS
Online team meeting	https://fau.zoom.us/j/67792730528
Production system (if any)	tba
Test system (if any)	tba
GitHub repository	https://github.com/i315315/amos2022ws02-automotive-test-app
GitHub feature board	https://github.com/users/i315315/projects/3/views/1
GitHub impediments backlog	https://github.com/users/ronjarehm/projects/1/views/1
Team T-shirt (black, male)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/eca1c484-76e3-403a-8df9-b080a79b659f
Team T-shirt (black, female)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/fb698f2d-07cd-4e63-9301-62e7e0d35a1b
Additional materials	

Last Name	First Name	GitHub User Name	Email Address
Rehm	Ronja	ronjarehm	ronja.rehm@fau.de
Schreiner	Stefanie	stefanieschreiner	stefanie.schreiner@fau.de
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Tuncay	Berkan Ender	BETuncay	berkan.tuncay@fau.de

#	Meeting Day	Product Owner	Software Developer	Release Manager	Scrum Master	Comment
1	2022-10-19	Corinna Wüllner, Stefanie	Everyone else	N/A	Ronja Rehm	
2	2022-10-26	Corinna Wüllner, Stefanie	Everyone else	Anders	Ronja Rehm	
3	2022-11-02	Corinna Wüllner, Stefanie	Everyone else	Berkan	Ronja Rehm	
4	2022-11-09	Corinna Wüllner, Stefanie	Everyone else	Daniel	Ronja Rehm	
5	2022-11-16	Corinna Wüllner, Stefanie	Everyone else	Emre	Ronja Rehm	
6	2022-11-23	Corinna Wüllner, Stefanie	Everyone else	Hanna	Ronja Rehm	
7	2022-11-30	Corinna Wüllner, Stefanie	Everyone else	Lara	Ronja Rehm	Mid-term due
8	2022-12-07	Corinna Wüllner, Stefanie	Everyone else	Tobias	Ronja Rehm	
9	2022-12-14	Corinna Wüllner, Stefanie	Everyone else	Anders	Ronja Rehm	
10	2023-01-11	Corinna Wüllner, Stefanie	Everyone else	Berkan	Ronja Rehm	
11	2023-01-18	Corinna Wüllner, Stefanie	Everyone else	Daniel	Ronja Rehm	
12	2023-01-25	Corinna Wüllner, Stefanie	Everyone else	Emre	Ronja Rehm	
13	2023-02-01	Corinna Wüllner, Stefanie	Everyone else	Hanna	Ronja Rehm	
14	2023-02-08	Corinna Wüllner, Stefanie	Everyone else	Lara	Ronja Rehm	Demo day!
15	2023-02-15	Corinna Wüllner, Stefanie	Everyone else	Tobias	Ronja Rehm	Retrospective

Goals	Have a working and visually pleasing app; good team work; good grades; continuous work throughout the semester
Meeting norms	Be punctual; active contribution; respectful environment
Working norms	Do the work you're assigned to do, in the agreed time frame; in case of questions/struggles ask for help; set realistic goals; work
Coordination norms	If you cannot attend a meeting, please inform the team asap and give information on work in text-form
Communication norms	Open/honest/constructive communication; decisions should be made in consensus; if questions arise, take time to answer themm
Consideration norms	In case of issues: have open communication about it, resolve issues in a respectful way; for assistance contact Scrum Master
Cont. improvement norms	Learn from mistakes; give positive/negative feedback to team mates; exchange knowledge
Rewards	Give compliments for a job well done; have a virtual beer together
Sanctions	If at least 5mins too late to a meeting: sing a christmas carol

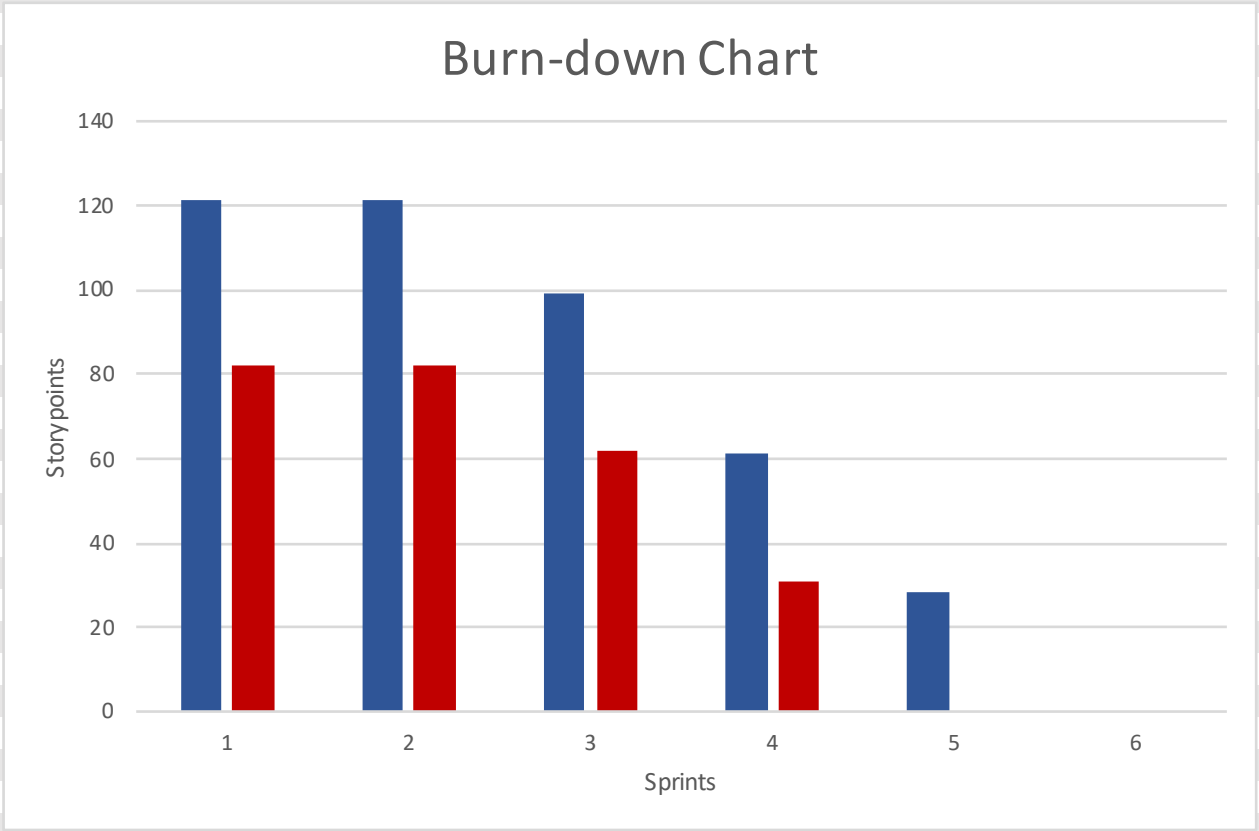
Product Vision	Project Mission
The importance of infotainment systems in cars is increasing and users expect more and more connectivity in the car (Handelsblatt, 2005). At the same time, different car manufacturers use different infotainment systems, each customized to the specific needs of the respective manufacturers. With InfotAiMOS, our goal is to create an OpenSource Android Automotive test app, which can be used by various software developers of infotainment systems to help them with the development of other apps and thus, make their work easier.	The mission of this project is to develop a functioning Android Automotive test app, that can help to test and simulate different use cases of infotainment systems immediately or with a time delay. It particularly focuses on the simulation of these use cases in the context of navigation, steering wheel knobs, media play, power management and vehicle properties. This app should therefore, provide the developers with a test system in which apps can be tested in a safe environment.

Term	Definition

Sprint	Theme Goal	Feature Name	Est. Size	Est.	Real Size	Real
Release						
	Total		121	0	82	0
Sprints						
				Estimated burn-down		Real burn-down
1	Initial organizational tasks		0	121	0	82
2	Familarization with project		0	121	0	82
3	Implementation of Navigation Context Area		22	99	20	62
4	Development of Navigation & Steering Wheel Are		38	61	31	31
5	Development of additional Areas		33	28	31	0
6	Implementation of Vehicle Properties Use Cases		28	0	0	0
Features						
1	**Initial organizational tasks**					
	Set up development environment and team structures					
		#30 Set up development				
		#31 Set up SD kickoff-meeting				
2	**Familarization with project**					
	Familiarize with programming environmer					
		#9 Familiarize with Android				
		#10 Familiarize with test driven				
		#11 Familiarize with Android				
		#12 Familiarize with Kotlin				
		#27 Fill Bill of Materials				
		#28 Come up with Software				
		#29 Create an App				
3	**Implementation of Navigation Context Area**					
	Create area for navigation use cases					
		#15 Design GUI for starting	3		3	
		#18 Implement GUI for use	3		3	
		#5 Design GUI for use cases in	3		3	
		#16 Implement functionality to	3		2	
		#8 Simulate starting a	5		5	

	#14 Simulate ending a	3	2
	#17 Implement back button to	2	2
4	**Development of Navigation and Steering Wheel Area**		
	Further development of navigation area and implementation of steering wheel area		
	#61 Add an icon for the	2	2
	#42 Design GUI for media play	2	3
	#41 Implement functionality of	3	2
	#39 Design GUI for showing	3	2
	#38 Implement click dummy to	2	2
	#37 Design GUI for steering	5	5
	#35 Implement functionality of	5	2
	#34 Implement functionality of	5	2
	#33 Implement functionality of	3	2
	#20 Implement functionality to	2	2
	#19 Design GUI for steering	3	2
	#13 Show that navigation is	3	5
5	**Development of additional areas**		
	Further development of steering wheel, vehicle properties and power management area		
	#55 Implement tests for the	3	2
	#57 Implement tests for the	3	3
	#21 Implement GUI for steering	5	5
	#40 Implement functionality to	3	3
	#66 Implement toggle button to	3	3
	#25 Design GUI for vehicle	5	5
	#7 Implement GUI for use	2	2
	#26 Implement functionality to	2	2
	#22 Design GUI for power	2	2
	#24 Implement GUI for use	3	2
	#23 Implement functionality to	2	2
6	**Implementation of Vehicle Properties Use Cases & Refactoring**		
	Develop an Area to test Vehicle Properties		
	#58 Create the Build Process	3	tbd.
	#72 Implement functionality of	3	tbd.
	#52 Implement functionality to	3	tbd.
	#53 Implement functionality to	3	tbd.
	#51 Implement functionality to	5	tbd.
	#43 Implement functionality to	2	tbd.

#92 Design mute button in	2	tbd.
#93 Design delay button in	2	tbd.
#43 Implement functionality to	2	tbd.
#56 Implement tests for the	3	tbd.



Sprint	Theme Goal	Feature Name	Est. Size	Est.	Real Size	Real
Release						
	Total		121	0	82	0
Sprints						
			Estimated burn-down			Real burn-down
1	Initial organizational tasks		0	121	0	82
2	Familarization with project		0	121	0	82
3	Implementation of Navigation Context Area		22	99	20	62
4	Development of Navigation & Steering Wheel Are		38	61	31	31
5	Development of additional Areas		33	28	31	0
6	Implementation of Vehicle Properties Use Cases		28	0	0	0
7	Implementation of Timer Context Area & Speech		tbd.	tbd.	tbd.	tbd.
8	tbd.		tbd.	tbd.	tbd.	tbd.
9	tbd.		tbd.	tbd.	tbd.	tbd.
10	Christmas Break		n/a	tbd.	n/a	n/a
11	tbd.		tbd.	tbd.	tbd.	tbd.
12	Finalization of App		tbd.	tbd.	tbd.	tbd.
13	Last Adjustments for the Final Project Release		tbd.	tbd.	tbd.	tbd.
14	Creation of Final Project Presentation		tbd.	tbd.	tbd.	tbd.
			tbd.	tbd.	tbd.	tbd.
Features						
1	**Initial organizational tasks**					
	Set up development environment and team structures					
		#30 Set up development				
		#31 Set up SD kickoff-meeting				
2	**Familarization with project**					
	Familiarize with programming environmer					
		#9 Familiarize with Android				
		#10 Familiarize with test driven				
		#11 Familiarize with Android				
		#12 Familiarize with Kotlin				
		#27 Fill Bill of Materials				
		#28 Come up with Software				
		#29 Create an App				

3	**Implementation of Navigation Context Area**		
	Create area for navigation use cases		
	#15 Design GUI for starting	3	3
	#18 Implement GUI for use	3	3
	#5 Design GUI for use cases in	3	3
	#16 Implement functionality to	3	2
	#8 Simulate starting a	5	5
	#14 Simulate ending a	3	2
	#17 Implement back button to	2	2
4	**Development of Navigation and Steering Wheel Area**		
	Further development of navigation area and implementation of steering wheel area		
	#61 Add an icon for the	2	2
	#42 Design GUI for media play	2	3
	#41 Implement functionality of	3	2
	#39 Design GUI for showing	3	2
	#38 Implement click dummy to	2	2
	#37 Design GUI for steering	5	5
	#35 Implement functionality of	5	2
	#34 Implement functionality of	5	2
	#33 Implement functionality of	3	2
	#20 Implement functionality to	2	2
	#19 Design GUI for steering	3	2
	#13 Show that navigation is	3	5
5	**Development of additional areas**		
	Further development of steering wheel, vehicle properties and power management area		
	#55 Implement tests for the	3	2
	#57 Implement tests for the	3	3
	#21 Implement GUI for steering	5	5
	#40 Implement functionality to	3	3
	#66 Implement toggle button to	3	3
	#25 Design GUI for vehicle	5	5
	#7 Implement GUI for use	2	2
	#26 Implement functionality to	2	2
	#22 Design GUI for power	2	2
	#24 Implement GUI for use	3	2
	#23 Implement functionality to	2	2

6	**Implementation of Vehicle Properties Use Cases & Refactoring**			
	Develop an Area to test Vehicle Properties			
		#58 Create the Build Process	3	tbd.
		#72 Implement functionality of	3	tbd.
		#52 Implement functionality to	3	tbd.
		#53 Implement functionality to	3	tbd.
		#51 Implement functionality to	5	tbd.
		#43 Implement functionality to	2	tbd.
		#92 Design mute button in	2	tbd.
		#93 Design delay button in	2	tbd.
		#43 Implement functionality to	2	tbd.
		#56 Implement tests for the	3	tbd.
7	**Implementation of Timer Context & Speech Assistant Area**			
	Develop an Area for the timer context and the Speech Assistant			
		#54 Implement functionality to	tbd.	tbd.
		#100 Simulate speech	tbd.	tbd.
		#101 Design GUI for timer area	tbd.	tbd.
		#102 Implement functionality to	tbd.	tbd.
		#103 Design delay button in	tbd.	tbd.
		#104 Implement functionality	tbd.	tbd.
		#105 Design GUI for speech	tbd.	tbd.
		#106 Implement functionality to	tbd.	tbd.
		#107 Implement functionality of	tbd.	tbd.
		#108 Implement functionality of	tbd.	tbd.
		#113 Design GUI for App	tbd.	tbd.
		#114 Implement functionality to	tbd.	tbd.
		#115 Move functionality for	tbd.	tbd.
		#117 Design GUI for list in timer	tbd.	tbd.
8	**tbd.**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		#109 Implement functionality to	tbd.	tbd.
		#111 Implement functionality to	tbd.	tbd.
		#116 Refactor GUI of starting	tbd.	tbd.
		#110 Design tile to show	tbd.	tbd.
		#112 Design tile to show	tbd.	tbd.

9	**tbd.**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
10	**Christmas Break**			
	n/a			
11	**tbd.**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
12	**Finalization of App**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.

		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
13	**Last Adjustments for the Final Project Release**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
14	**Creation of Final Project Presentation**			
	tbd.	TBD: issues in this sprint, since we only get requirements from the industry partner week by week	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.
		tbd.	tbd.	tbd.

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
1	- Code compiles and builds	- DoD of each feature in the sprint release is met	- Everything from the Sprint release is fullfilled
2	- Acceptance criteria are met	- No known severe bugs open	- All implemented features must be fully working
3	- Feature tests have been written and were passed	- Feature test coverage at/above 80%	- Documentation is available
4	- Code is peer-reviewed	- Feature is merged into the main branch	- APK is available
5	- Feature is merged into development branch	- Implemented Issues are closed	
6	- Documentation is updated	- Feature board is updated	
7	- Bill of Materials is updated	- Sprint Release Candidate is properly tagged	

Type	Link / reference
user documentation	https://github.com/amosproj/amos2022ws02-automotive-test-app/wiki/User-documentation
build documentation	https://github.com/amosproj/amos2022ws02-automotive-test-app/wiki/Build-Documentation

#	Context	Name	Version	License	Comment
1	junit	junit	4.13.2	Eclipse Public	https://github.com/junit-team/junit4
2	androidx.core	core-ktx	01.09.00	Apache 2.0	https://github.com/androidx/androidx
3	androidx.appcompat	appcompat	01.05.01	Apache 2.0	
4	androidx.test.ext	junit	01.01.03	Apache 2.0	
5	androidx.test.espresso	espresso-core	03.04.00	Apache 2.0	
6	androidx.activity	activity-ktx	01.06.01	Apache 2.0	
7	androidx.constraintlayout	constraintlayout	02.01.04	Apache 2.0	
8	androidx.media	media	01.06.00	Apache 2.0	
9	androidx.fragment	fragment-ktx	01.05.04	Apache 2.0	
10	com.google.android.material	material	01.07.00	Apache 2.0	https://github.com/material-components/material-components-androidhttps://github.com/material-components/material-components-android
11	JLLeitschuh	ktlint-gradle	11.0.0	MIT license	https://github.com/JLLeitschuh/ktlint-gradle
12	androidx.lifecycle	lifecycle-*	02.05.01	Apache 2.0	https://github.com/androidx/androidx
13	androidx.navigation	navigation	02.05.03	Apache 2.0	
14	org.hamcrest.Matchers	hamcrest matcher	01. Mär	BSD-3-Clause	https://github.com/hamcrest/JavaHamcrest

Last Name	First Name	Value
Rehm	Ronja	
Schreiner	Stefanie	
Wüllner	Corinna	
Güder	Emre	
Hausding	Anders	
Lang	Daniel	
Müller	Hanna	
Schmid	Tobias	
Sulzbach	Lara	
Tuncay	Berkan Ender	

######	######
0	No size
1	Trivial size
2	Small size
3	Medium size
5	Large size
8	Very large size
13	Too large (size)